

Notice of Allowability

Application No.

10/667,257

Examiner

DANNY NGUYEN

Applicant(s)

MAGYAR ET AL.

Art Unit

2836

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11/15/2007.
2. ☒ The allowed claim(s) is/are 2,6-12,14,15 and 18-26.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with applicant's attorney John R. Garrett on 1/29/2008.

The application has been amended as follows:

Claim 21 An apparatus comprising

a valve control stage operatively coupled to a coil of a solenoid actuator of a valve;

a current sensing stage operatively coupled to the coil of the solenoid actuator of the valve and to the valve control stage, current in the coil of the valve being monitored by the current sensing stage which sends data indicative thereof to the valve control stage;

a first impulse current, a first low current, a substantially zero current, a second impulse current, and a second low current supplied by the valve control stage to the coil of the solenoid actuator of the valve;

the first impulse current delivered to set the valve in motion toward an open state during a first time phase;

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the first low current delivered to stabilize the valve in the open state during a second time phase, the first low current having a lower amplitude than an amplitude of the first impulse current;

the substantially zero current delivered for an electrically idle interval during a third time phase, to conserve energy, as well as to allow magnetic forces to dissipate prior to a following reverse condition;

the second impulse current, which is polarized oppositely to the first impulse current, delivered to set the valve into motion toward a closed state during a fourth time phase; and

the second low current, which is polarized oppositely to the first low current, delivered to stabilize the valve in the closed state during a fifth time phase, the second low current having a lower amplitude than an amplitude of the first impulse current.

Claim 23 An apparatus, comprising:

a spray dampening system of a rotary printing press having at least a valve control stage, a current sensing stage, and at least one valve;

the valve control stage operatively coupled to a coil of a solenoid actuator of the valve;

the current sensing stage operatively coupled to the coil of the solenoid actuator of the valve and to the valve control stage, current in the coil of the valve being monitored by the current sensing stage which sends data indicative thereof to the valve control stage;

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a first impulse current, a first low current, a substantially zero current, a second impulse current, and a second low current supplied by the valve control stage to the coil of the solenoid actuator of the valve;

the first impulse current delivered to set the valve in motion toward an open state during a first time phase;

the first low current delivered to stabilize the valve in the open state during a second time phase, the first low current having a lower amplitude than an amplitude of the first impulse current;

the substantially zero current delivered for an electrically idle interval during a third time phase, to conserve energy, as well as to allow magnetic forces to dissipate prior to a following reverse condition;

the second impulse current, which is polarized oppositely to the first impulse current, delivered to set the valve into motion toward a closed state during a fourth time phase; and

the second low current, which is polarized oppositely to the first low current, delivered to stabilize the valve in the closed state during a fifth time phase, the second low current having a lower amplitude than an amplitude of the first impulse current.

Allowable Subject Matter

2. the applicant's arguments filed 11/15/2007 with respect to claims 2, 14, 19, 21, 23, and 25 have been fully considered, and found persuasive. Thus, claims 2, 6-12, 14-15, and 18-26 are allowed.

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The following is a statement of reasons for the indication of allowable subject matter:

Claim 2 recites an amperage control for an electrically operated valve, comprising:

a substantially zero current, which is one of the regulated current intervals of the flow of current in said electrically controlled valve, delivered by the valve control apparatus for an electrically idle interval during a third time phase, to conserve energy, as well as to allow magnetic forces to dissipate prior to a following reverse condition;

a second impulse current, which is one of the regulated current intervals of the flow of current in said electrically controlled valve and which is polarized oppositely to the first impulse current, delivered by the valve control apparatus to set the valve into motion toward a closed state during a fourth time phase; and

a second low current, which is one of the regulated current intervals of the flow of current in said electrically controlled valve and which is polarized oppositely to the first low current, delivered by the valve control apparatus to stabilize the valve in the closed state during a fifth time phase, the second low current having a lower amplitude than an amplitude of the first impulse current.

Claim 14 recites a method of controlling an operation of an electrically controlled valve comprising the steps of effecting delivery of a first impulse current to set the valve in motion toward an open state during a first time phase, delivery of a first low current to stabilize the valve in the open state during a second time phase, the first low current having a lower amplitude than an amplitude of the first impulse current, delivery of a

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substantially zero current for an electrically idle interval during a third time phase to conserve energy, as well as to allow magnetic forces to dissipate prior to a following reverse condition, delivery of a second impulse current which is polarized oppositely to the first impulse current, to set the valve into motion toward a closed state during a fourth time phase, and delivery of a second low current, which is polarized oppositely to the first low current, to stabilize the valve in the closed state during a fifth time phase, the second low current having a lower amplitude than an amplitude of the first impulse current.

Claims 19, 21, 23, and 25 recite an apparatus, comprising:

the substantially zero current delivered for an electrically idle interval during a third time phase to conserve energy, as well as to allow magnetic forces to dissipate prior to a following, reverse condition;

the second impulse current, which is polarized oppositely to the first impulse current, delivered to set the valve into motion toward a closed state during a fourth time phase; and

the second low current, which is polarized oppositely to the first low current, delivered to stabilize the valve in the closed state during a fifth time phase, the second low current having a lower amplitude than an amplitude of the first impulse current.

The references of record do not teach or suggest the aforementioned limitations, nor would it be obvious to modify those references to include such limitations.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to DANNY NGUYEN whose telephone number is (571)272-2054. The examiner can normally be reached on 8:00-4:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MICHAEL SHERRY can be reached on 571-272-2084. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DN
1/30/2008



EXAMINER
SUPERVISOR
TECHNICAL STAFF